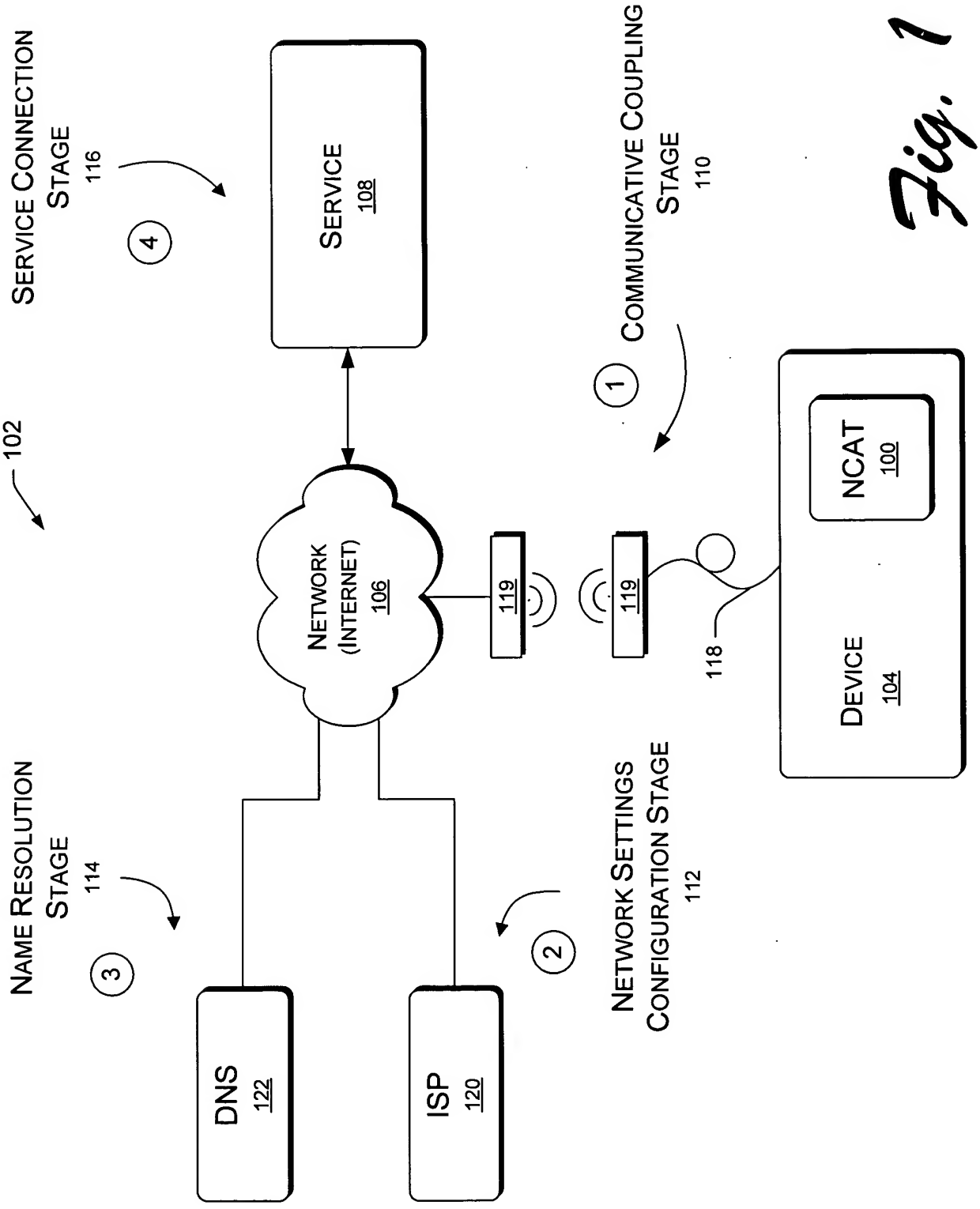
102
SERVICE CONNECTION STAGE
116
4
SERVICE
108
COMMUNICATIVE COUPLING STAGE
110
1
NCAT
100
DEVICE
104
118
119
119
NETWORK (INTERNET)
106
NAME RESOLUTION STAGE
114
3
2
NETWORK SETTINGS CONFIGURATION STAGE
112
DNS
122
ISP
120

Fig. 1

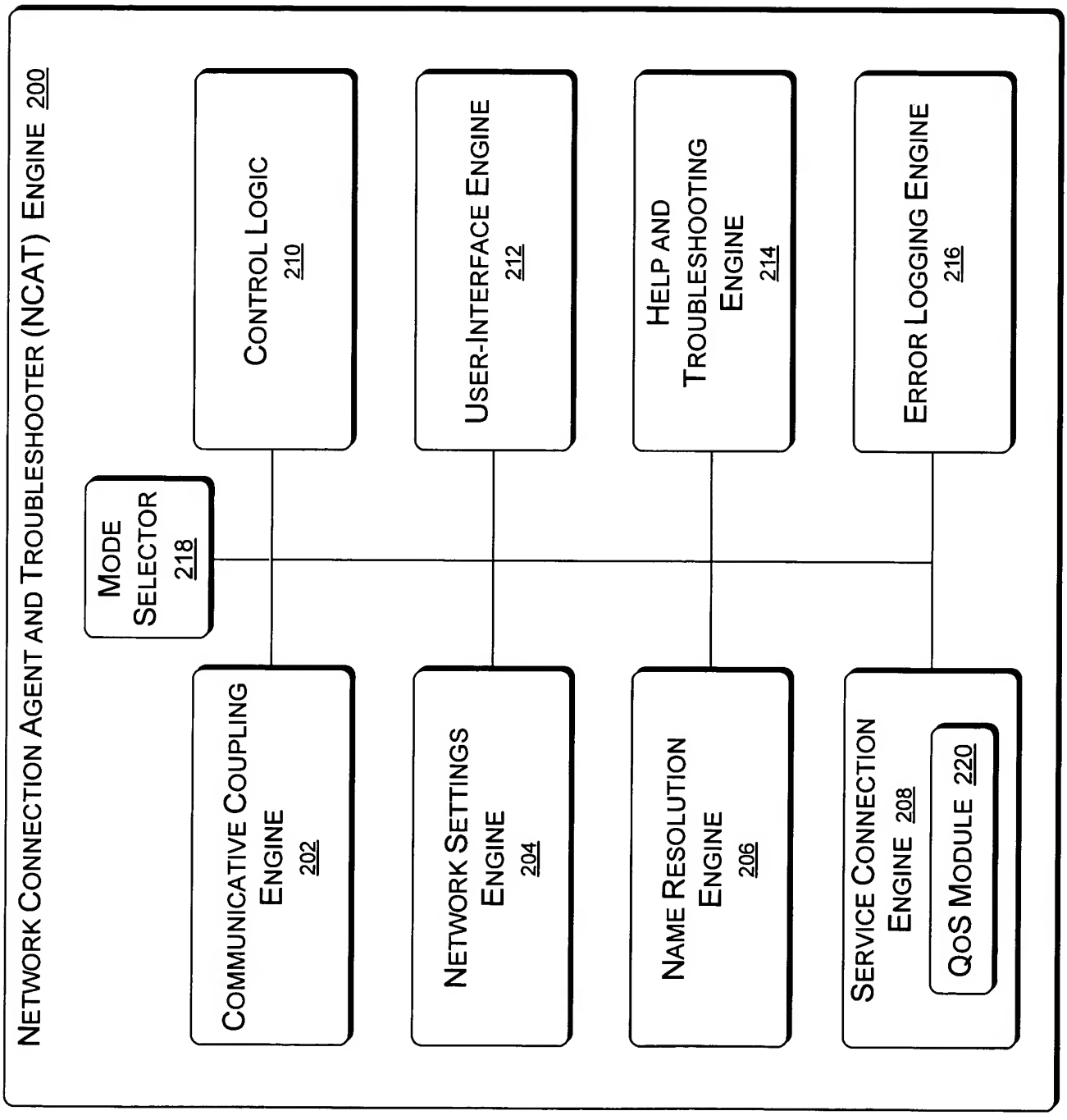
Network Connection Agent and Troubleshooter (NCAT) Engine 200
Control Logic 210
User-Interface Engine 212
Help and Troubleshooting Engine 214
Error Logging Engine 216
Mode Selector 218
Communicative Coupling Engine 202
Network Settings Engine 204
Name Resolution Engine 206
Service Connection Engine 208
QoS Module 220

Fig. 2

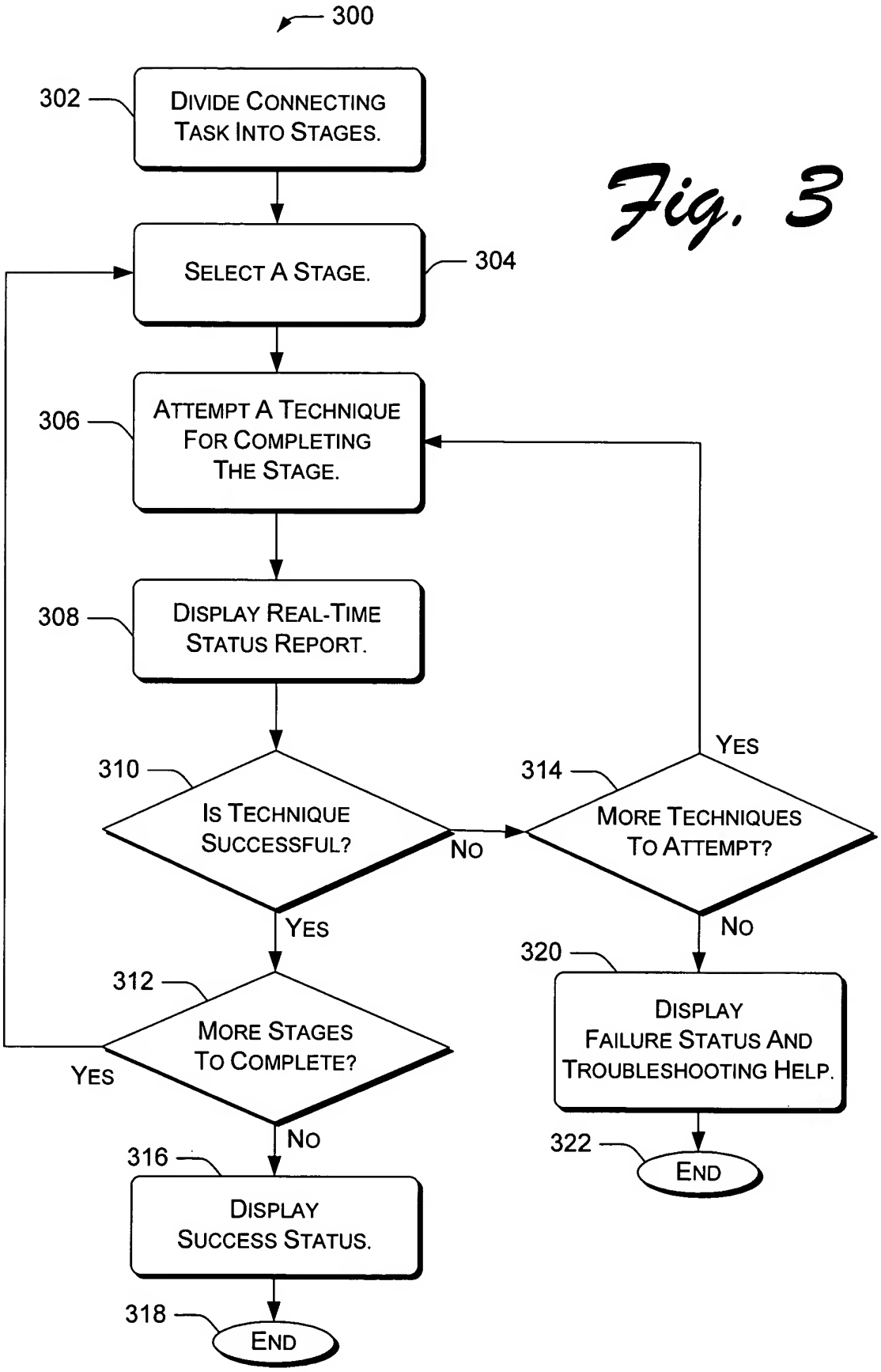
300
302
DIVIDE CONNECTING TASK INTO STAGES.
SELECT A STAGE.
304
306
ATTEMPT A TECHNIQUE FOR COMPLETING THE STAGE.
308
DISPLAY REAL-TIME STATUS REPORT.
310
IS TECHNIQUE SUCCESSFUL?
NO
YES
314
MORE TECHNIQUES TO ATTEMPT?
YES
NO
312
MORE STAGES TO COMPLETE?
YES
NO
316
DISPLAY SUCCESS STATUS.
318
END
320
DISPLAY FAILURE STATUS AND TROUBLESHOOTING HELP.
322
END

Fig. 3

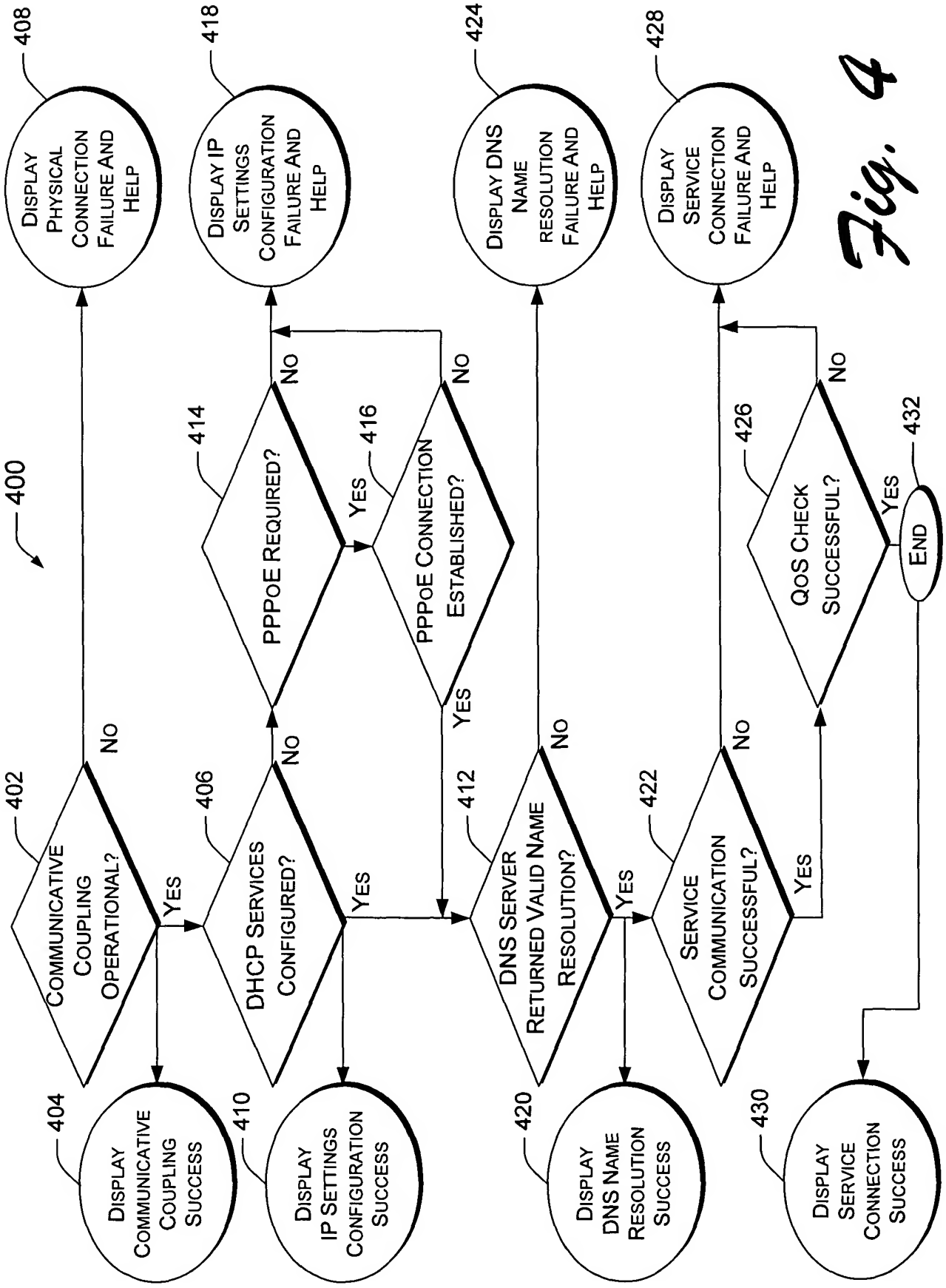
400
402
COMMUNICATIVE COUPLING OPERATIONAL?
NO
YES
404
DISPLAY COMMUNICATIVE COUPLING SUCCESS
408
DISPLAY PHYSICAL CONNECTION FAILURE AND HELP
406
DHCP SERVICES CONFIGURED?
NO
YES
410
DISPLAY IP SETTINGS CONFIGURATION SUCCESS
414
PPPOE REQUIRED?
NO
YES
416
PPPOE CONNECTION ESTABLISHED?
NO
YES
418
DISPLAY IP SETTINGS CONFIGURATION FAILURE AND HELP
412
DNS SERVER RETURNED VALID NAME RESOLUTION?
NO
YES
420
DISPLAY DNS NAME RESOLUTION SUCCESS
424
DISPLAY DNS NAME RESOLUTION FAILURE AND HELP
422
SERVICE COMMUNICATION SUCCESSFUL?
NO
YES
426
QOS CHECK SUCCESSFUL?
NO
YES
428
DISPLAY SERVICE CONNECTION FAILURE AND HELP
432
END
430
DISPLAY SERVICE CONNECTION SUCCESS

Fig. 4

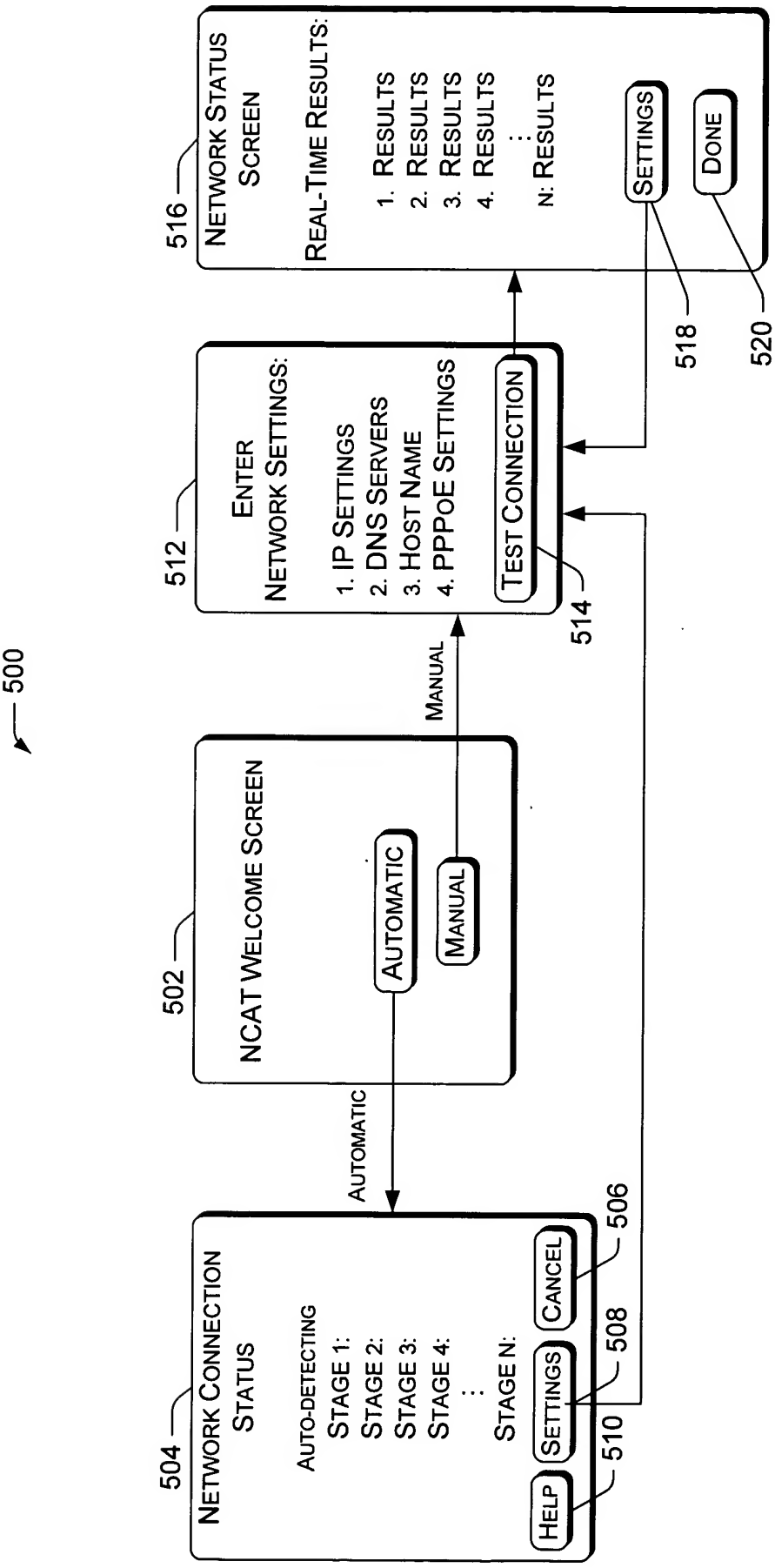
500
502
NCAT Welcome Screen
Automatic
Manual
504
Network Connection Status
Auto-detecting
Stage 1:
Stage 2:
Stage 3:
Stage 4:
...
Stage N:
Help
Settings
Cancel
506
508
510
Automatic
Manual
512
Enter Network Settings:
1. IP Settings
2. DNS Servers
3. Host Name
4. PPPoE Settings
Test Connection
514
516
Network Status Screen
Real-Time Results:
1. Results
2. Results
3. Results
4. Results
...
N: Results
Settings
Done
518
520

Fig. 5

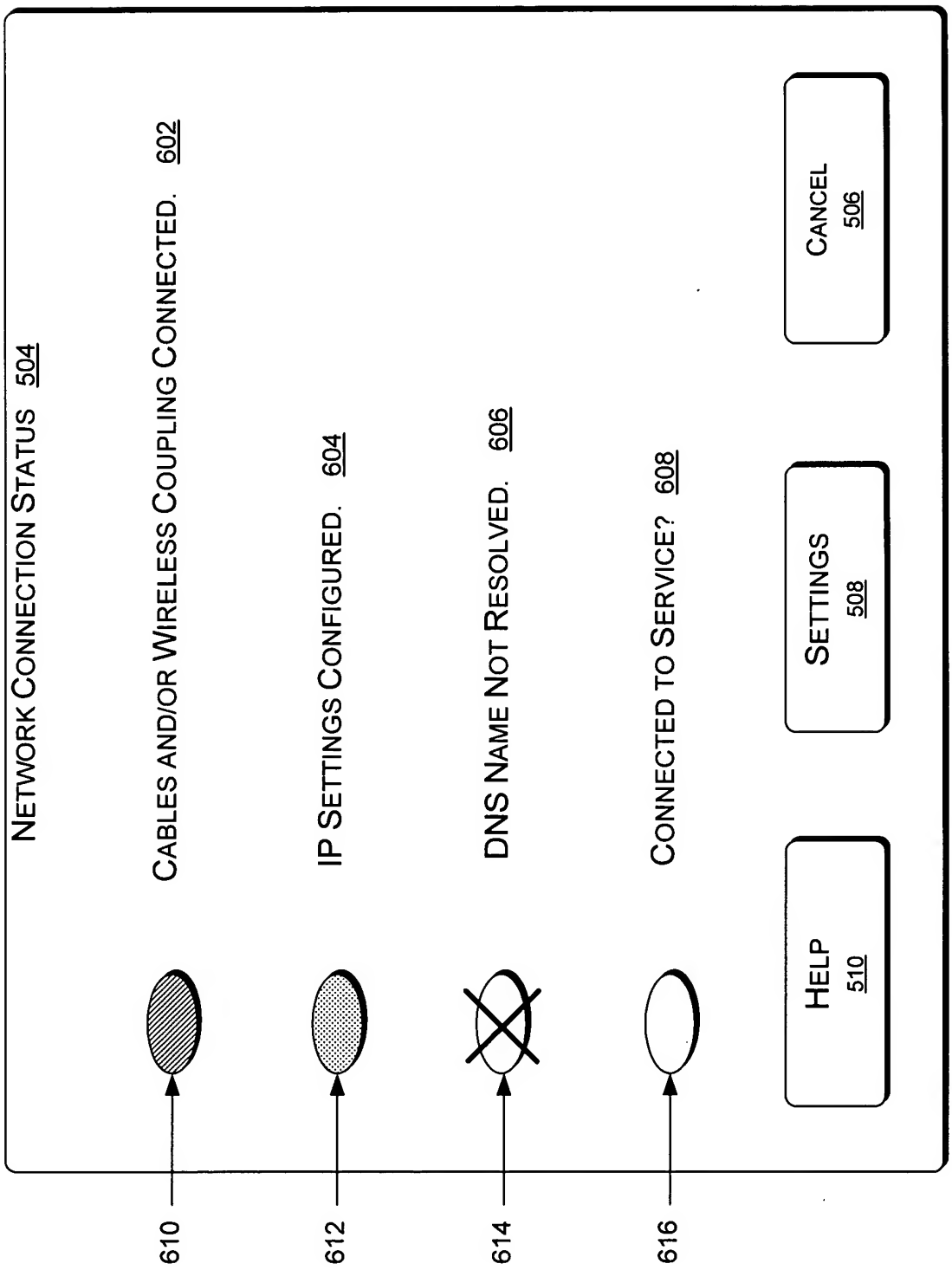
NETWORK CONNECTION STATUS 504
CABLES AND/OR WIRELESS COUPLING CONNECTED. 602
IP SETTINGS CONFIGURED. 604
DNS NAME NOT RESOLVED. 606
CONNECTED TO SERVICE? 608
HELP 510
SETTINGS 508
CANCEL 506
610
612
614
616

Fig. 6

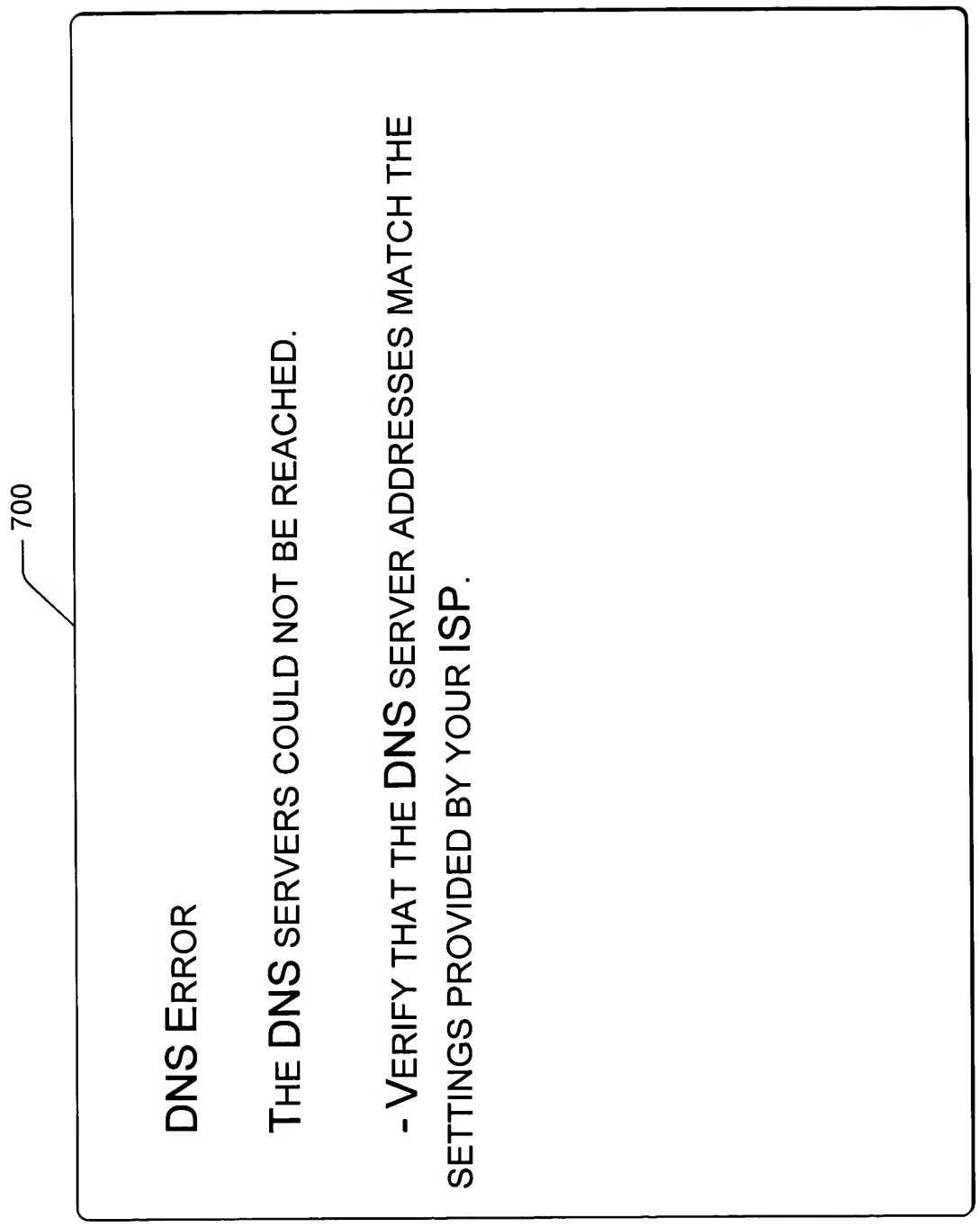
700
DNS ERROR
THE DNS SERVERS COULD NOT BE REACHED.
- VERIFY THAT THE DNS SERVER ADDRESSES MATCH THE SETTINGS PROVIDED BY YOUR ISP.

Fig. 7

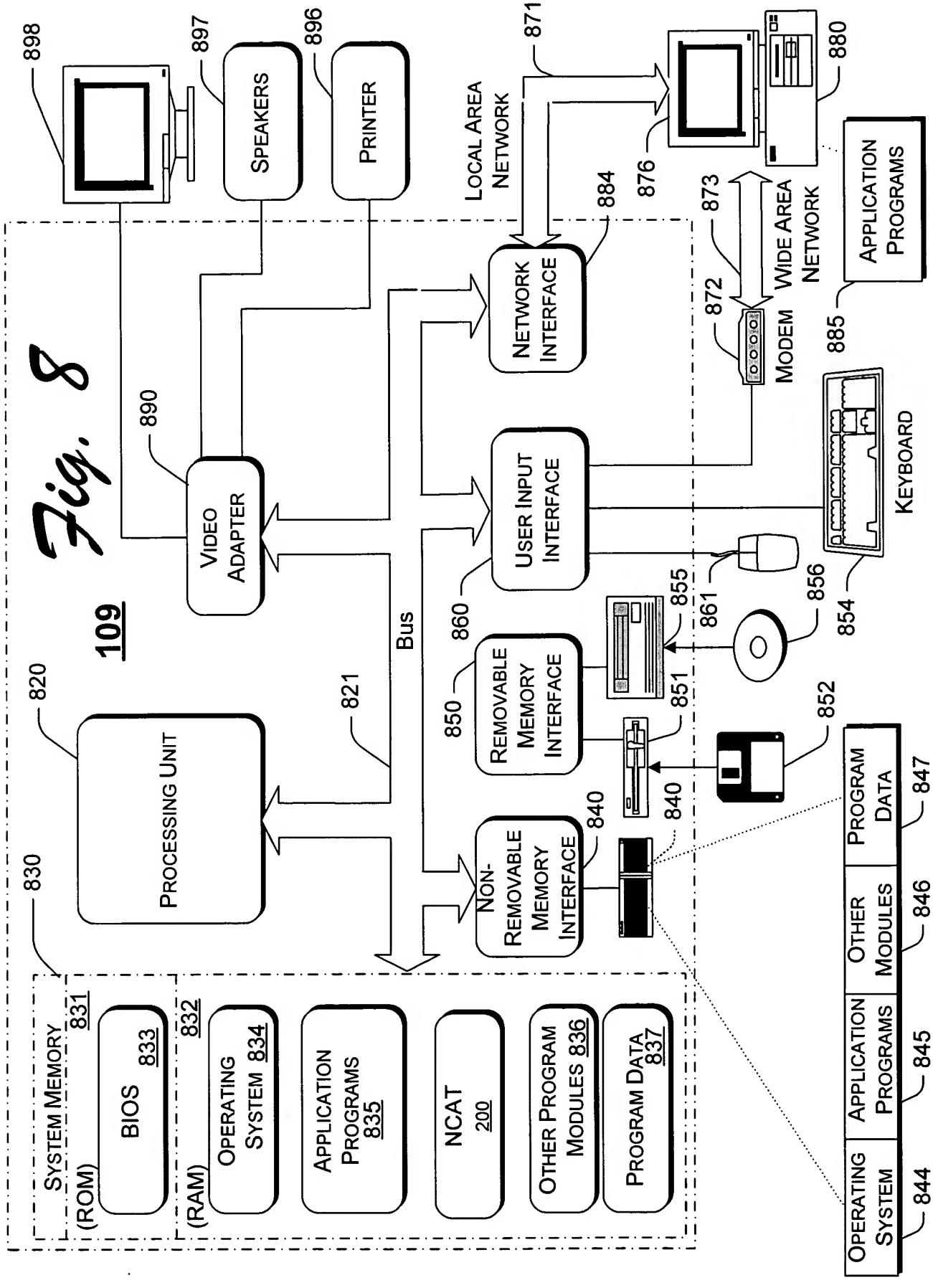
Fig. 8
109
898
897
SPEAKERS
896
PRINTER
LOCAL AREA NETWORK
871
880
APPLICATION PROGRAMS
885
876
873
WIDE AREA NETWORK
872
MODEM
884
NETWORK INTERFACE
890
VIDEO ADAPTER
USER INPUT INTERFACE
KEYBOARD
860
855
861
856
854
850
REMOVABLE MEMORY INTERFACE
851
852
840
NON-REMOVABLE MEMORY INTERFACE
820
PROCESSING UNIT
821
Bus
830
SYSTEM MEMORY
831
(ROM)
BIOS 833
832
(RAM)
OPERATING SYSTEM 834
APPLICATION PROGRAMS 835
NCAT 200
OTHER PROGRAM MODULES 836
PROGRAM DATA 837
OPERATING SYSTEM
844
APPLICATION PROGRAMS
845
OTHER MODULES
846
PROGRAM DATA
847